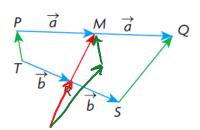
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October-01-12 5:40 PM

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15. \underline{M} is the midpoint of line segment \underline{PQ} , and R is the midpoint of \underline{TS} . If $\underline{PM} = \overline{MQ} = \overline{d}$ and $\overline{TR} = \overline{RS} = \overline{b}$, as shown, prove that $2\overline{RM} = \overline{TP} + \overline{SQ}$.



$$\overrightarrow{RM} = \overrightarrow{RS} + \overrightarrow{SQ} + \overrightarrow{QM}$$

$$\overrightarrow{RM} = \overrightarrow{b} + \overrightarrow{SQ} - \overrightarrow{Q}$$